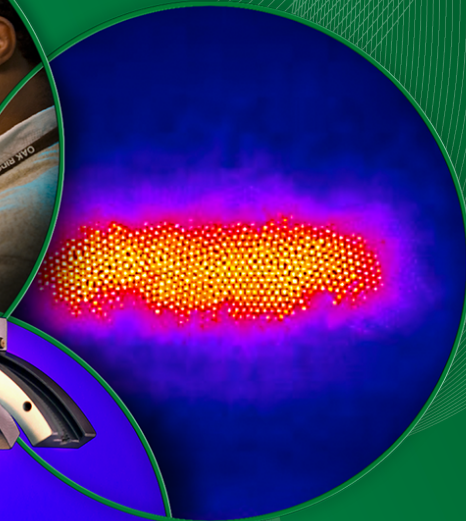
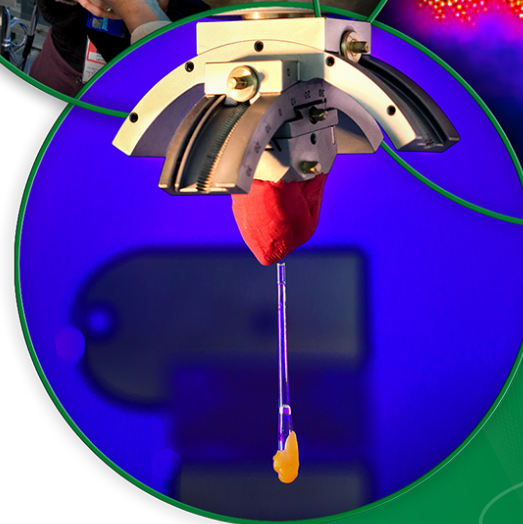


# PuSH: A New System for Managing Publications at SNS and HFIR

Gabrielle Boudreau



ORNL is managed by UT-Battelle  
for the US Department of Energy

 **OAK RIDGE**  
National Laboratory | HIGH FLUX ISOTOPE REACTOR | SPALLATION NEUTRON SOURCE

# Why Change?

- Our previous system did not relate to the proposal system – not connected to experiments or users
- It was not simple for users to submit
- The previous system had a limited scope and could not produce the metrics we needed
- For more extensive metrics, we maintained spreadsheets of our publication data – causing double the work

# The User Experience

- Encourage users to submit by making it easy – submit a DOI and identify the instrument.
- Engage the User with easy access to their publications
- Encourage users to submit a publication beginning one year post-experiment.

# Clear Guidance from our website



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## Neutron Sciences





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## Neutron Science Research Publications

Publications from research conducted at the High Flux Isotope Reactor (HFIR) and/or Spallation Neutron Source (SNS) may be searched through the [PuSH \(Publications of SNS and HFIR\)](#) database. PuSH also contains publications associated with the Shull Wollan Center for Neutron Sciences and those authored by our Neutron Sciences Directorate staff.

All users of HFIR and SNS are asked to submit information about their resulting publications to PuSH. Submitting your publication is now as simple as [entering the DOI](#).

-  [Submit a Publication](#)
-  [Search Publications](#)
-  [Guide to PuSH](#) 
- [Contact Us](#)

## Publications by Instrument

[CG-1D](#) | [IMAGING](#) | [HFIR](#)

[CG-2](#) | [GP-SANS](#) | [HFIR](#)

[CG-3](#) | [Bio-SANS](#) | [HFIR](#)

[CG-4C](#) | [CTAX](#) | [HFIR](#)

[CG-4D](#) | [IMAGINE](#) | [HFIR](#)



HIGH FLUX  
ISOTOPE  
REACTOR

SPALLATION  
NEUTRON  
SOURCE



# PuSH Video Guide

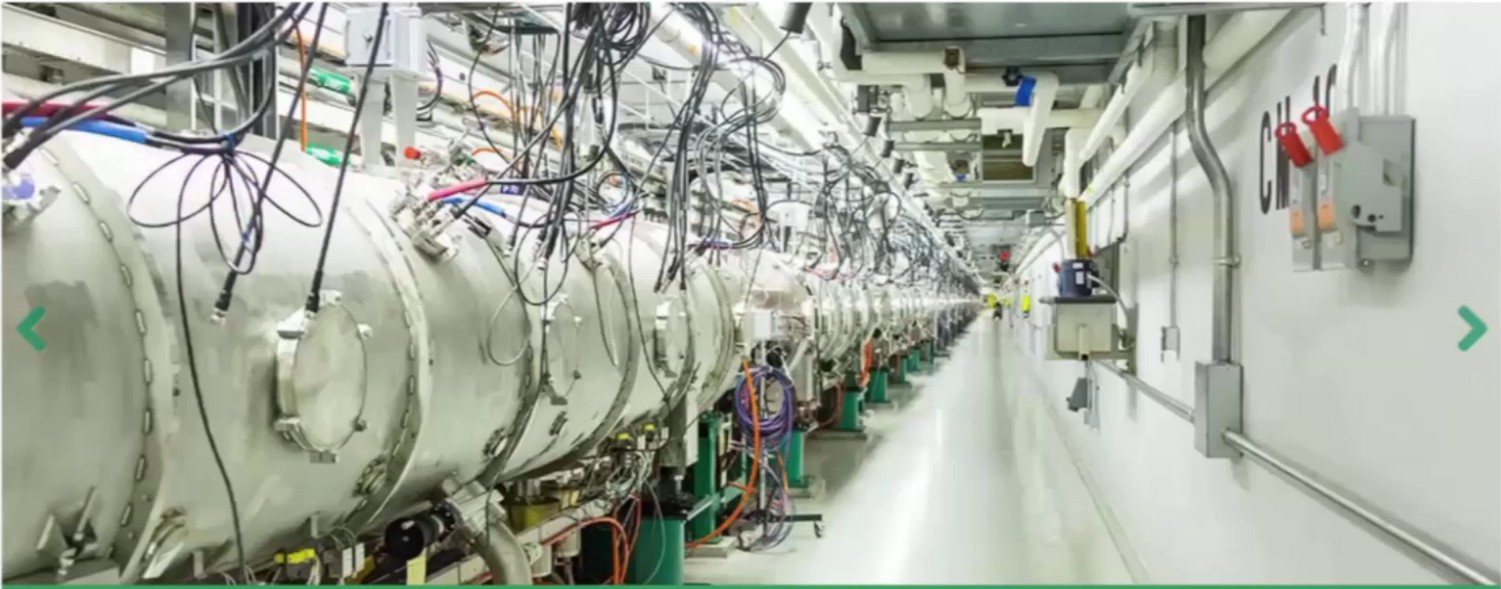
neutrons.ornl.gov

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Behind the scenes of the Spallation Neutron Source - The linear accelerator

● ● ● ● ● ● ●

# Submitting to PuSH: make it easy!



Submit Publication | [Search](#) [Charts](#) [Instr. Stats](#) [Submit](#) [Feedback](#)

Submit your publication using the DOI/URL Fast Track form. If DOI/URL is not available, please use the Regular Submission form.

☒ DOI/URL Fast Track Submission ☐ Regular Submission

**Submit Publication**

\* DOI/URL:

\* Instruments: 

BL-1A (USANS)  
BL-1B (NOMAD)  
BL-2 (BASIS)  
BL-3 (SNAP)  
BL-4A (MAGREF)  
BL-4B (LIQREF)

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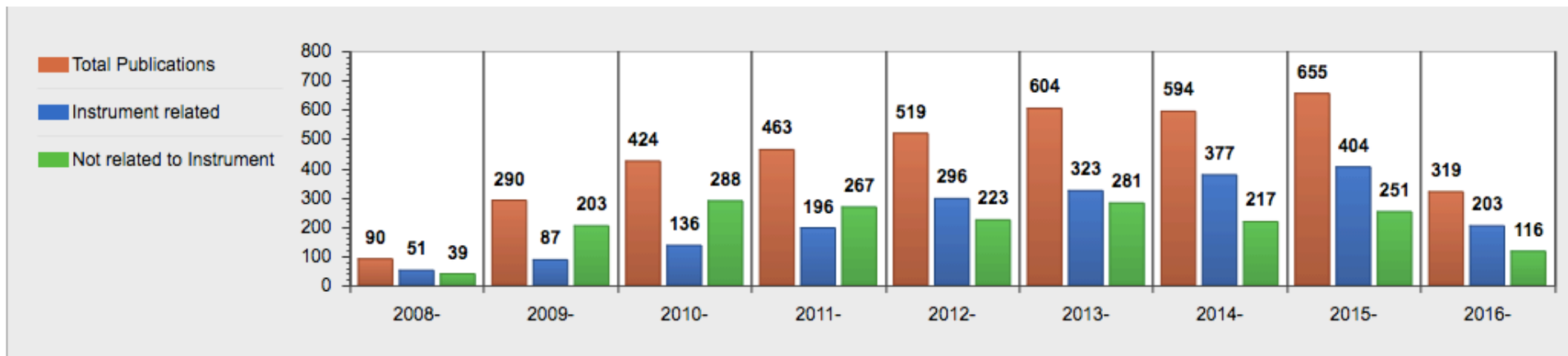
Comment:

Related Proposal(s), comma separated IPTS numbers:

\* Your Name:  \* Your Email:

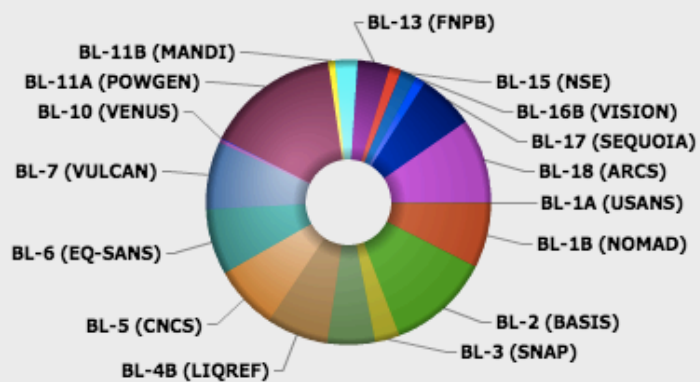
[Reset](#) [Submit to PuSH](#)

# Provide graphs and visual statistics

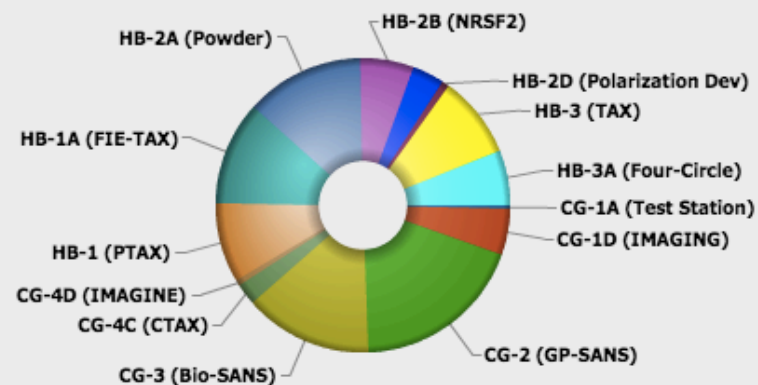


CLICKABLE CHARTS show publication statistics and allow drilling down by facility, instrument, and year. If a publication is related

Interactive Chart: SNS Publications by Instrument



Interactive Chart: HFIR Publications by Instrument



# Publication Vetting

- We had over 3000 records to migrate and vet
- ~ 1000 records met criteria to make a direct match with a user and did not need vetting
- The other 2000 records were checked to potentially match the author name to a user record in the proposal system.
- As part of the vetting process we categorize each publication to link it to work in Irradiation, Isotopes, instruments, and our Shull Wollan Center.
- We currently have ~4000 publications in the PuSH database, including instrument publications and staff publications.



# Vetting our submitted publications

## NScD Publications

Home	Reports & Stats	Confirmed	Submitted	Journals	Types	Virtual Instruments	Authors	Institutions	Conferences
------	-----------------	-----------	-----------	----------	-------	---------------------	---------	--------------	-------------

### New Submitted Publications

Create New

Q v









Go

1. Primary Report

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Actions v

1 - 5 of 5

	Publ ID 	Publ Type	Title	Authors	Auth 	Journal Selected	Journal Typed In	DOI	Sub By Email Addr	Ir
	41685	Journal Article	HOLD--Visualizing the Bohr effect in hemoglobin: neutron structure of equine cyanomet-hemoglobin in the R-state and comparison with human deoxy-hemoglobin in the T-state	S. Dajnowicz, S. Seaver, B.L. Hanson, S.Z. Fisher, P. Langan, A. Kovalevsky, T.C. Mueser		Acta Crystallographica Section D	-	-	marlerlp@ornl.gov	-
	41684	Journal Article	HOLD--Limitations in current acetylcholinesterase structure-based design of oxime antidotes for organophosphate poisoning	A. Kovalevsky, D.K. Blumenthal, X. Cheng, P. Taylor, Z. Radic		Annals of the New York Academy of Sciences	-	-	marlerlp@ornl.gov	-
										

# What we check

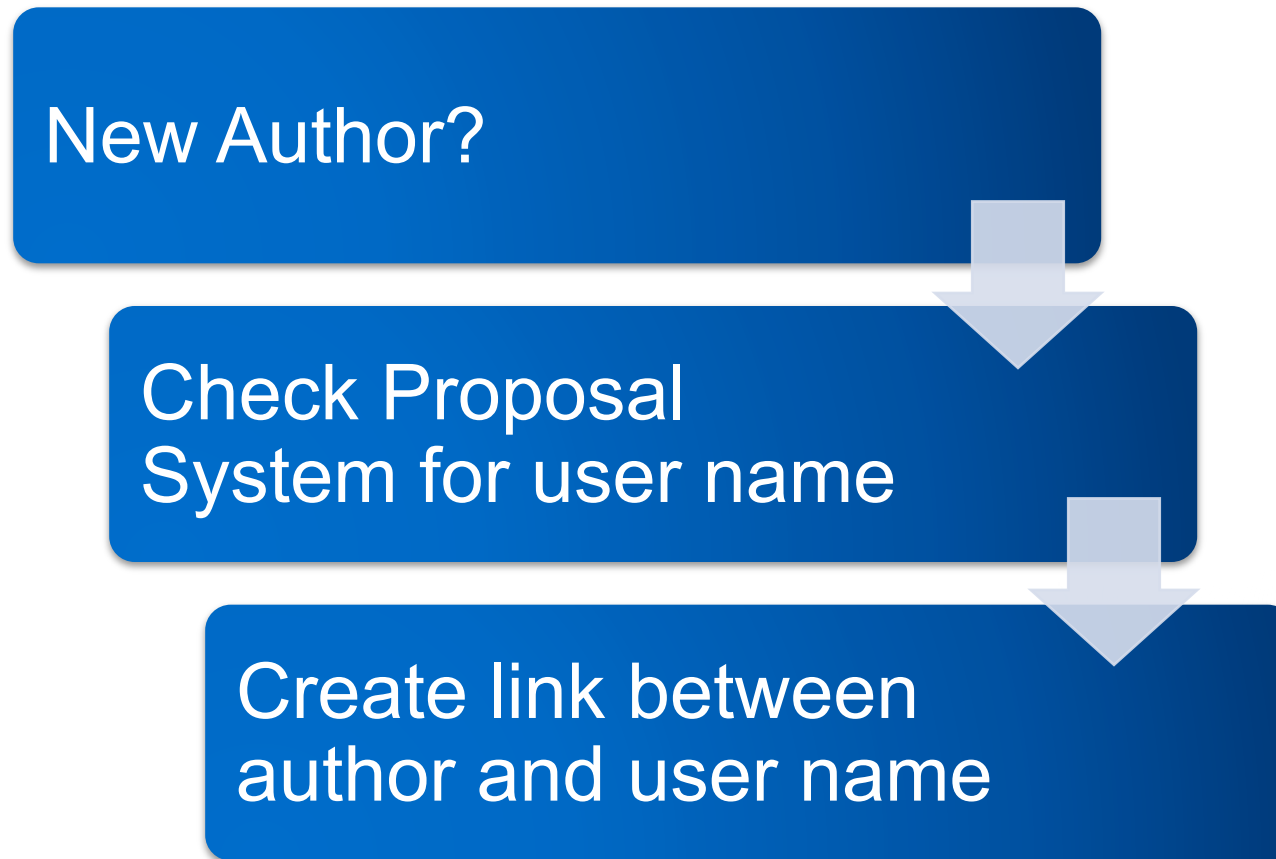
- Is it a duplicate? PuSH checks DOI and Title fields for potential duplicates
- Does the duplicate provide new information?
- Is it publicly available?
- Institution of every author
- Can we link the author to a facility user?
- Does the article fit any special recognition category?

# Special Recognition Categories

☒ Special Recognition

- ☐ DOE High Impact
- ☐ DOE Highlight
- ☐ Editor's Choice
- ☐ Journal Cover
- ☐ Journal Impact Factor >7
- ☐ Rapid Access

# Linking Authors to Facility Users



# Linking Authors to a User Record

## ▼ PUSH Authors Lookup

Total 
 Selected Author ID(s) 
 Selected Author Name(s)

row(s) 1 - 7 of 7

<input type="checkbox"/>	Author ID	Edit	Last Name	In1	In2	In3	First Name	Email	Institution	IPTS Person ID	UCAMS ID	Comments	Alias	Rsrch ID	Orcid ID
<input type="checkbox"/>	44988		Cladek	B			Bernadette	bcladek@vois.utk.edu	University of Tennessee - Knoxville	90022480	BCLADEK				
<input type="checkbox"/>	35823		et al.						--						
<input type="checkbox"/>	44987		Koch	R					--						
<input type="checkbox"/>	44986		Metz	P			Peter	pcm1@alfred.edu	--	90015524	PETMETZ				
<input type="checkbox"/>	39860		Misture	S	T		Scott	misture@alfred.edu	Alfred University	90002466	MISTURE				
<input type="checkbox"/>	35707		Neuefeind	J			Joerg	neuefeindjc@ornl.gov	ORNL NScD (Neutron Sciences Directorate)	30005003	ZJN	Chemical & Engineering Materials Div			
<input type="checkbox"/>	39706		Page	K			Katharine	pageki@ornl.gov	ORNL NScD (Neutron Sciences Directorate)	30028909	K7P	Chemical & Engineering Materials Div			



# Linking author to IPTS user

## ▼ IPTS Users Lookup

Link PuSH Author to IPTS User

Selected IPTS Person ID:

	IPTS Person ID	Last Name	First Name	Username	Email	Country	Phone	Institution	Badge #
<input type="checkbox"/>	90014452	Wu	Yan	KAFERY	ywu8@lsu.edu	-	2252416438	-	03025472
<input type="checkbox"/>	90005218	Wu	Yuan	WUYUAN	wuyuan@ustb.edu.cn	-	-	-	00989556
<input type="checkbox"/>	30017870	Wu	Yuning	Y1G	wuy2@ornl.gov	-	-	-	00955610
<input type="checkbox"/>	90015616	Wu	Yuntao	YWU52	caswyt@hotmail.com	-	(865) 387-3902	-	X90015616

1 - 4

# Linking experiments to publications

My Dashboard

[Experiments Needing Publications](#)

2

Proposal

7564

Submission

1

Instrument

BL-11A

Title

In Situ Observation of Cation Ordering in a High-Voltage Spinel Cathode

Team

Arumugam Manthiram, Ashfia Huq, Craig Bridges, Dongwook Shin, M Paranthaman

Your known SNS/HFIR Publications from PuSH

Associate Checked Publications with Proposal

Publication Not Found in List

Unable To Publish

Q v

Go

Actions v

	Citation	Instrument
<input type="checkbox"/>	M.Abreu Sepulveda, D.E.Williams, A. <b>Huq</b> , C.Dhital, Y.Li, M.P.Paranthaman, K.Zaghib, A.Manivannan, "Synthesis and characterization of substituted garnet and perovskite-based lithium-ion conducting solid electrolytes," <i>Ionics</i> , 1-9 ( 2015).	BL-11A
<input type="checkbox"/>	V.K.Anand, D.G.Quirinale, Y.B.Lee, B.N.Harmon, Y.Furukawa, V.V.Ogloblichev, A. <b>Huq</b> , D.L.Abernathy, P.W.Stephens, R.J.McQueeney, A.Kreyssig, A.I.Goldman, D.C.Johnston, "Crystallography and physical properties of BaCo <sub>2</sub> As <sub>2</sub> , Ba <sub>0.94</sub> K <sub>0.06</sub> Co <sub>2</sub> As <sub>2</sub> , and Ba <sub>0.78</sub> K <sub>0.22</sub> Co <sub>2</sub> As <sub>2</sub> ," <i>Physical Review B</i> 90, 064517 ( 2014).	BL-11A
<input type="checkbox"/>	S.Avci, O.Chmaissem, H.Zheng, A. <b>Huq</b> , P.Manuel, J.F.Mitchell, "Oxygen stoichiometry in the geometrically frustrated Kagome system YBaCo <sub>4</sub> O <sub>7-δ</sub> : delta impact on phase behavior and magnetism," <i>Chemistry of Materials</i> 25 (21), 4188-4196 ( 2013).	-

# What have we gained?

- We give our reviewers and staff an easy link in the proposal review process to identify the scientific productivity of users
- We provide our management with detailed metrics on productive teams, users, and instruments.
- Our users and staff are much more aware of the importance we place on having their publications.